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Aerosol dispenser for dispensing water-containing solution of  
film-forming polymer in form of fine droplets - has valve system designed  
to prevent stopping up or formation of foam round nozzle

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Patent Family:

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WO 9747535	A1	19971218	WO 97FR997	A	19970605	B65D-083/14	199805 B
<b>FR 2749568</b>	A1	19971212	FR 967158	A	19960610	B65D-083/44	199806
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Abstract (Basic): WO 9747535 A

A dispenser (1) for a liquid product (P) containing at least one film-forming polymer and at least 15 wt.% water on total weight of the product, in the form of fine droplets, comprises (I) a receptacle (2) containing the liquid (P) and a propellant gas (G), (II) a distribution valve (15) for the liquid consisting of a body (24) with first and second chambers (28a, 28b) connected to each other by a passage (p), and (III) mobile means (16) for controlling the valve for dispensing the product. The first chamber (28a) is provided with a first additional gas tapping orifice (d1) and a second product supply orifice (d2) in permanent communication with the liquid. The second chamber (28b) comprises at least in part the controlling means (16). The ratio of the diameters of the orifices d1 and d2 ( $d1/d2 = 0.3-1$ ), so that the flow rate in the valve during the dispensing of the product P is determined by the cross section of the passage (p).

USE - Especially for dispensing hair care compositions such as hair lacquers, setting lotions, brushing lotions, etc., in the form of a fine spray.

ADVANTAGE - The design of the valve allows compositions containing film-forming polymers and relatively large amounts of water to be dispensed in the form of fine droplets without stoppage of the valve and with zero or greatly reduced formation of foam round the nozzle which would impede formation of a fine spray. The water content of the product allows sprayed products of this type to be formulated with a reduced content of organic solvent in comparison to previous products.

Dwg.1/3

Title Terms: AEROSOL; DISPENSE; DISPENSE; WATER; CONTAIN; SOLUTION; FILM;

FORMING; POLYMER; FORM; FINE; DROP; VALVE; SYSTEM; DESIGN; PREVENT; STOP;

UP; FORMATION; FOAM; ROUND; NOZZLE

Derwent Class: A23; A25; A32; A96; D21; Q34

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Polymer Indexing (PS):

<01>

\*001\* 018; P0839-R F41 D01 D63

\*002\* 018; P0635-R F70 D01

\*003\* 018; P1592-R F77 D01

\*004\* 018; P0964-R F34 D01

\*005\* 018; G0635 G0022 D01 D12 D10 D23 D22 D31 D41 D51 D53 D58 D75 D86 F71; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D76 D88; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D84; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83; R01410 G0113 G0102 G0022 D01 D02 D11 D10 D12 D19 D18 D31 D51 D53 D58 D76 D89; R00725 G0113 G0102 G0022 D01 D02 D11 D10 D12 D19 D18 D31 D51 D53 D58 D76 D89; R01417 G0113 G0102 G0022 D01 D02 D11 D10 D12 D19 D18 D31 D51 D53 D58 D76 D89; R00835 G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84 F41 F89; R22506 G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D85 F41 F89; R00817 G0475 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D83 F12; R00429 G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D85; R01079 G0828 G0817 D01 D12 D10 D51 D54 D56 D58 D69 D84 CI 7A; H0000; H0011-R; P1150 ; P0328 ; P1741 ; P0088 ; P0102 ; P0339 ; P0340 ; P1161 ; P1343 ; P1752

\*006\* 018; G0668 G0022 D01 D12 D10 D23 D22 D31 D45 D51 D53 D58 D75 D85 N-5A; H0000; H0011-R

\*007\* 018; G0260-R G0022 D01 D12 D10 D26 D51 D53 D11 D63 D58 F70-R F93 F70; H0000; H0011-R; P0088-R; S9999 S1025 S1014

\*008\* 018; G0760-R G0022 D01 D51 D53 E00 D11 D10 D12 D63 F41-R F89 F41  
F70-R F93 F70 D58 D59 E01 E03; H0000; H0011-R

\*009\* 018; P1707 P1694 D01

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